

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants : Robert T. GUNN  
Serial No. : 09/713,714  
Filed : November 15, 2000  
For : **COMPOSITIONS WITH LOW COEFFICIENTS OF FRICTION  
AND METHODS FOR THEIR PREPARATION**  
Group Art Unit: 1711

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on March 6, 2001.

Samuel H. Megerditchian, Reg. No. 45,678

Name of Applicant, Assignee or Registered Representative

*Samuel H. Megerditchian*  
Signature

March 6, 2001

Date of Signature

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The Examiner's attention is respectfully invited to the following documents which are also listed on the accompanying Form PTO-1449, enclosed in duplicate.

**U.S. PATENT DOCUMENTS**

1. U.S. Patent No. 4,922,551, Issued: May 8, 1990 to Anthes,
2. U.S. Patent No. 5,323,815, Issued: June 28, 1994 to Barbeau et al.,
3. U.S. Patent No. 3,782,996, Issued: January 1, 1974 to Belue et al.,
4. U.S. Patent No. 4,812,367, Issued: March 14, 1989 to Bickle,

5. U.S. Patent No. 4,104,176, Issued: August 1, 1978 to Bidler,
6. U.S. Patent No. 4,847,135, Issued: July 11, 1989 to Braus et al.,
7. U.S. Patent No. 3,844,826, Issued: October 29, 1974 to Buchner et al.,
8. U.S. Patent No. 3,781,205, Issued: December 25, 1973 to Cairns et al.,
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11. U.S. Patent No. 4,138,524, Issued: February 6, 1979 to Darroch,
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13. U.S. Patent No. 4,996,094, Issued: February 26, 1991 to Dutt,
14. U.S. Patent No. 4,572,174, Issued: February 25, 1986 to Eilender et al.,
15. U.S. Patent No. 4,371,445, Issued: February 1, 1983 to Faigle,
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18. U.S. Patent No. 5,082,512, Issued: January 21, 1992 to Futamura et al.,
19. U.S. Patent No. 6,143,368, Issued: November 7, 2000 to Gunn,
20. U.S. Patent No. 6,061,829, Issued: May 16, 2000 to Gunn,
21. U.S. Patent No. 5,829,057, Issued: November 3, 1998 to Gunn,
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25. U.S. Patent No. 4,960,279, Issued: October 2, 1990 to Harris, Jr.,
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30. U.S. Patent No. 4,843,844, Issued: July 4, 1989 to Hursh et al.,
31. U.S. Patent No. 4,201,777, Issued: May 6, 1980 to Inoue,
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34. U.S. Patent No. 5,889,080, Issued: March 30, 1999 to Kaminski et al.,
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42. U.S. Patent No. 4,074,512, Issued: February 21, 1978 to Matt,
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44. U.S. Patent No. 4,152,784, Issued: May 8, 1979 to McGalliard,
45. U.S. Patent No. 5,763,011, Issued: June 9, 1998 to Miyama et al.,
46. U.S. Patent No. 4,153,980, Issued: May 15, 1979 to Moertel,
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48. U.S. Patent No. 5,260,360, Issued: November 9, 1993 to Mrozinski et al.,
49. U.S. Patent No. 5,271,211, Issued: December 21, 1993 to Newman,
50. U.S. Patent No. 5,538,762, Issued: July 23, 1996 to Ogawa et al.,
51. U.S. Patent No. 5,425,989, Issued: June 20, 1995 to Ogawa et al.,
52. U.S. Patent No. 3,980,570, Issued: September 14, 1976 to Okuda et al.,

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54. U.S. Patent No. 5,508,109, Issued: April 16, 1996 to Patil et al.,
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56. U.S. Patent No. 5,120,358, Issued: June 9, 1992 to Pippett,
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60. U.S. Patent No. 3,749,138, Issued: July 31, 1973 to Rheaume et al.,
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62. U.S. Patent No. 3,147,582, Issued: September 8, 1964 to Scharf,
63. U.S. Patent No. 3,311,486, Issued: March 28, 1967 to Scharf,
64. U.S. Patent No. 2,974,055, Issued: March 7, 1961 to Scharf,
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66. U.S. Patent No. 4,805,240, Issued: February 21, 1989 to Siqveland,
67. U.S. Patent No. 5,123,113, Issued: June 23, 1992 to Smith,
68. U.S. Patent No. 3,328,100, Issued: June 27, 1967 to Spokes et al.,
69. U.S. Patent No. 4,881,276, Issued: November 21, 1989 to Swan,
70. U.S. Patent No. 5,807,633, Issued: September 15, 1998 to Tamaru et al.,
71. U.S. Patent No. 5,597,364, Issued: January 28, 1997 to Thompson,
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73. U.S. Patent No. 4,519,612, Issued: May 28, 1985 to Tsao,
74. U.S. Patent No. 5,904,152, Issued: May 18, 1999 to Tseng et al.,
75. U.S. Patent No. 3,590,881, Issued: July 6, 1971 to Van Amburg,
76. U.S. Patent No. 5,171,622, Issued: December 15, 1992 to Wegner,

77. U.S. Patent No. 4,638,513, Issued: January 27, 1987 to Woods,
78. U.S. Patent No. 5,385,694, Issued: January 31, 1995 to Wu et al., and
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80. Australian Patent AU 77340/91 published January 23, 1992,
81. Australian Patent AU 22938/77 published September 7, 1998,
82. Australian Patent AU 17452/76 published March 9, 1978,
83. Australian Patent AU 70407/74 published January 8, 1976,
84. English Patent 861,506 published February 22, 1961,
85. European Patent EPO 0 105 773 published April 18, 1984,
86. German Patent DE 35 34 401 A1 published April 9, 1987,
87. German Patent DE 28 20 793 published November 22, 1979,
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89. German Patent DE 20 07 860 published September 2, 1971,
90. Japanese Patent JP 5-263362 published October 12, 1993,
91. Japanese Patent JP 5-263363 published October 12, 1993.
92. Japanese Patent JP 5-263364 published October 12, 1993,
93. Japanese Patent JP 4-327269 published November 16, 1992,
94. Japanese Patent JP 4-327270 published November 16, 1992,
95. Japanese Patent JP 4 327271 published November 16, 1992,
96. Japanese Patent JP 6-228865 published August 16, 1994,
97. Japanese Patent JP 6-228866 published August 16, 1994,
98. Japanese Patent JP 6-228867 published August 16, 1994,
99. Japanese Patent JP 5-339879 published December 21, 1993,
100. Japanese Patent JP 4-28830 published May 15, 1992,
101. Japanese Patent JP 2-68303 published March 7, 1990,
102. Japanese Patent JP 59-47404 published March 17, 1984,
103. Japanese Patent JP 55-62201 published May 10, 1980,
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105. WO 99/40246 published August 12, 1999,

- 106. WO 95/17107 published June 29, 1995, and
- 107. UK 861,506 published February 22, 1961.

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- 109. "DuPont PTFE 30 fluoropolymer resin" (facsimile), pages 2-5.
- 110. DuPont, Better Living Sept.-Oct. 1969.
- 111. K. Herring and D. Richie, Journal of the American Podiatric Medical Association, "Comparison of Cotton and Acrylic Socks Using a Generic Cushion Sole Design for Runners", Vol. 83/No. 9, September 1993, pages 515-522.
- 112. K. Herring and D. Richie, Journal of the American Podiatric Medical Association, "Friction Blisters and Sock Fiber Composition", Vol. 80/No. 2, February 1990, pages 63-71.
- 113. NASA, Spacesuit Guidebook, pages 1-23, July 1991.
- 114. The Shuttle Space Suite Assembly, ILC Dover Inc.

Pursuant to Rule 37 C.F.R. §1.97(b)(3), an Information Disclosure Statement shall be considered by the Patent Office filed before the issuance of the first Office Action on the merits.

This Information Disclosure Statement is not a representation that the documents cited herein are considered most pertinent, or that a search has been undertaken, or that any of the cited documents are indeed prior art. The Examiner is invited to undertake an independent search. Applicant asserts that the claimed invention is patentable over these documents.

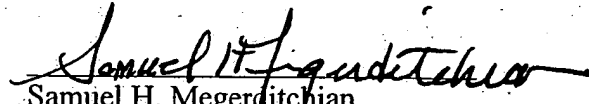
Applicant respectfully requests that the Examiner consider and make of record the documents cited herein and that a copy of Form PTO-1449, appropriately initialed by the Examiner, be returned to Applicant's attorney.

It is believed no fee is due, however, the Examiner is authorized to charge any deficit or credit any overpayment to Deposit Account No. 50-0320.

Respectfully submitted,

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Attorneys for Applicants

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Based on Form PTO-1449 (3/90)  LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. 514210-2058.1		CONTINUATION OF SERIAL NO.  09/713,714	
				APPLICANT Gunn			
				FILING DATE November 15, 2000		GROUP 1711	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,922,551	5/8/90	Anthes			
	AB	5,323,815	6/28/94	Barbeau et al.			
	AC	3,782,996	1/1/74	Belue et al.			
	AD	4,812,367	3/14/89	Bickle			
	AE	4,104,176	8/1/78	Bidler			
	AF	4,847,135	7/11/89	Braus et al.			
	AG	3,844,826	10/29/74	Buchner et al.			
	AH	3,781,205	12/25/73	Cairns et al.			
	AI	5,743,812	4/28/98	Card			
	AJ	5,827,133	10/27/98	Chang			
	AK	4,138,524	2/6/79	Darroch			
	AL	5,750,620	5/12/98	Davies et al.			
	AM	4,996,094	2/16/91	Dutt			
	AN	4,572,174	2/25/86	Eilender et al.			
	AO	4,371,445	2/1/83	Faigle			
	AP	3,895,133	7/15/75	Fleisig et al.			
	AQ	5,575,012	11/19/96	Fox et al.			
	AR	5,082,512	1/21/92	Futamura et al.			
	AS	6,143,368	11/7/00	Gunn			
	AT	6,061,829	5/16/00	Gunn			
	AU	5,829,057	11/3/98	Gunn			
	AV	5,752,278	5/19/98	Gunn			
	AW	5,590,420	1/7/97	Gunn			
	AX	5,500,247	3/19/96	Hagqvist			
	AY	4,960,279	10/2/90	Harris, Jr.			
	AZ	2,610,539	9/16/52	Hedge			
	BA	5,856,046	1/5/99	Heilmann et al.			



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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BB	4,550,446	11/5/85	Herman			
	BC	5,811,042	9/22/98	Hoiness			
	BD	4,843,844	7/4/89	Hursh et al.			
	BE	4,201,777	5/6/80	Inoue			
	BF	4,967,494	11/6/90	Johnson			
	BG	4,864,669	9/12/89	Jones			
	BH	5,889,080	3/30/99	Kaminski et al.			
	BI	5,154,682	10/13/92	Kellerman			
	BJ	4,494,247	1/22/85	Kelly			
	BK	5,527,594	6/18/96	Kinoshita et al.			
	BL	4,923,741	5/8/90	Kosmo et al.			
	BM	4,751,108	6/14/88	Larimore et al.			
	BN	4,438,531	3/27/84	Long, et al.			
	BO	5,866,647	2/2/99	Massey et al.			
	BP	4,074,512	2/21/78	Matt			
	BQ	4,261,061	4/14/81	McAlvage			
	BR	4,152,784	5/8/79	McGalliard			
	BS	5,763,011	6/9/98	Miyama et al.			
	BT	4,153,980	5/15/79	Moertel			
	BU	4,626,365	12/2/86	Mori			
	BV	5,260,360	11/9/93	Mrozinski et al.			
	BW	5,271,211	12/21/93	Newman			
	BX	5,538,762	7/23/96	Ogawa et al.			
	BY	5,425,989	6/20/95	Ogawa et al.			
	BZ	3,980,570	9/14/76	Okuda et al.			
	CA	6,093,482	7/25/00	Park et al.			
	CB	5,508,109	4/16/96	Patil et al.			
	CC	4,296,499	10/27/81	Patterson et al.			
	CD	5,120,358	6/9/92	Pipett			
	CE	3,813,695	6/4/74	Podell, Jr. et al.			
	CF	2,862,283	12/2/58	Rasero			
	CG	3,992,014	11/16/76	Reiford			
	CH	3,749,138	7/31/73	Rheaume et al.			
	CI	4,195,362	4/1/80	Rolando			

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CJ	3,147,582	9/8/64	Scharf			
	CK	3,311,486	3/28/67	Scharf			
	CL	2,974,055	3/7/61	Scharf			
	CM	5,093,388	3/3/92	Siemon, Jr. et al.			
	CN	4,805,240	2/21/89	Siqueland			
	CO	5,123,113	6/23/92	Smith			
	CP	3,328,100	6/27/67	Spokes et al.			
	CQ	4,881,276	11/21/89	Swan			
	CR	5,807,633	9/15/98	Tamaru et al.			
	CS	5,597,364	1/28/97	Thompson			
	CT	5,080,969	1/14/92	Tokumura			
	CU	4,519,612	5/28/85	Tsao			
	CV	5,904,152	5/18/99	Tseng et al.			
	CW	3,590,881	7/6/71	Van Amburg			
	CX	5,171,622	12/15/92	Wegner			
	CY	4,638,513	1/27/87	Woods			
	CZ	5,385,694	1/31/95	Wu et al.			
	DA	5,376,441	12/27/94	Wu et al.			
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	DB	AU 77340/91	1/23/92	Australia			
	DC	AU 22938/77	9/7/78	Australia			
	DD	AU 17452/76	3/9/78	Australia			
	DE	AU 70407/74	1/8/76	Australia			
	DF	861,506	2/22/61	England			
	DG	EPO 0 105 773	4/18/84	EPO			
	DI	DE 35 34 401 A1	4/9/87	Germany			X
	DJ	DE 28 20 793	11/22/79	Germany			X
	DK	DE 26 26 765	12/22/77	Germany			X
	DL	DE 20 07 860	9/2/71	Germany			X
	DM	JP 5-263362	10/12/93	Japan (Abstract)			X
	DN	JP 5-263363	10/12/93	Japan (Abstract)			X
	DO	JP 5-263364	10/12/93	Japan (Abstract)			X

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	DP	JP 4-327269	11/16/92	Japan (Abstract)			X
	DQ	JP 4-327270	11/16/92	Japan (Abstract)			X
	DR	JP 4-327271	11/16/92	Japan (Abstract)			X
	DS	JP 6-228865	8/16/94	Japan (Abstract)			X
	DT	JP 6-228866	8/16/94	Japan (Abstract)			X
	DU	JP 6-228867	8/16/94	Japan (Abstract)			X
	DV	JP 5-339879	12/21/93	Japan (Abstract)			X
	DW	JP 4-28830	5/15/92	Japan			X
	DX	JP 2-68303	3/7/90	Japan			X
	DY	JP 59-47404	3/17/84	Japan			X
	DZ	JP 55-62201	5/10/80	Japan			X
	EA	JP 63051857	3/4/88	Japan (Abstract)			X
	EB	WP 99/40246	8/12/99	PCT			
	EC	WO 95/17107	6/29/95	PCT			
	ED	UK 861,506	2/22/61	UK			

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL			
	EF		Dictionary Physics-Chemistry, 3 <sup>rd</sup> Edition, published August 20, 1973, pp 1304-1305.
	EG		"DuPont PTFE 30 fluoropolymer resin" (facsimile), pages 2-5.
	EH		DuPont, Better Living Sept.-Oct. 1969.
	EI		K. Herring and D. Richie, Journal of the American Podiatric Medical Association, "Comparison of Cotton and Acrylic Socks Using a Generic Cushion Sole Design for Runners", Vol. 83/No. 9, September 1993, pages 515-522.
	EJ		K. Herring and D. Richie, Journal of the American Podiatric Medical Association, "Friction Blisters and Sock Fiber Composition", Vol. 80/No. 2, February 1990, Pages 63-71.
	EK		NASA, Spacesuit Guidebook, 1-23, July 1991
	EL		The Shuttle Space Suit Assembly, ILC Dover Inc.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.